



East Carter Co. R-II School District
Course Scope and Sequence

Course: 3rd grade Science

# OF DAYS	TOPICS
20	<p>Unit 1: Module 1: Forces Around Us</p> <p>Essential Question: What is motion? How do forces change motion?</p> <p>Focus: motion, forces can change motion</p> <p>Concepts: movement, position, distance, motion, measurement of motion, different types of motion, comparison of distance, force, relationship between force and motion, types of forces</p>
20	<p>Unit 1: Module 2: Electricity and Movement</p> <p>Essential Question: What are the effects of electricity on objects? How does electric current work? What is magnetic and how does it work?</p> <p>Focus: effects of electricity on objects, how electric current works, describe a magnet and how it works, how a magnetic field works,</p> <p>Concepts: electricity, electrical energy, static electricity, electric current, magnet, magnetic field</p>

20	<p>Unit 2: Module 3: Plants</p> <p>Essential Questions: What is the life cycle of the plant? What are traits of plants?</p> <p>Focus: how seeds grow and fit into a plants life cycle, how metamorphosis is a part of some plants life cycles, describe the life cycle of a plant, plant traits and inherited traits, patterns in plant traits,</p> <p>Concepts: seed growth, life cycle, patterns in life cycles, metamorphosis, pattern in plant traits, identifying inherited plant traits</p>
28	<p>Unit 2: Module 4: Animals</p> <p>Essential Questions: What are animal traits? What are the life cycles of animals?</p> <p>Focus: identify why young grow up to look like the adult animal, how metamorphosis is a part of some animal life cycles, comparing life cycles of different types of animals, characteristics in organisms, animal traits, relationship between traits and survival, animal interaction,</p> <p>Concepts: metamorphosis, similarities, differences, inherited characteristics in organisms, inherited animal traits, physical traits, behavioral traits, relationships between traits and survival, interaction between animals</p>
33	<p>Unit 3: Module 5: Survive the Environment</p> <p>Essential Question: How does the environment affect the survival of organisms? How do adaptations and variations help survival of organisms?</p> <p>Focus: compare/contrast plants in different locations, needs of plants and animals to survive, animal survivals in different ecosystems, effects of changing habitats, adaptations helping animal survival, camouflage helping animal survival, various types of adaptations,</p> <p>Concepts: survival, ecosystems, camouflage, adaptations, habitats, environment</p>
22	<p>Unit 3: Module 6: Change the Environment</p> <p>Essential Question: How does changes in the environment over time affect organisms?</p> <p>Focus: Earth's layers, fossil creation over time, what we learn from fossils, different types of fossils, different ways part of ecosystems interact,</p>

	<p>environmental changes over time, Concepts: environments, ecosystems, fossils</p>
15	<p>Unit 4: Module 7: Observing Weather Essential Question: How does changes in weather affect the environment? What are the different types of weather and characteristics of that weather? Focus: where weather comes from, weather prediction, comparing weather patterns, factors that affect the climate, Concepts: atmosphere, precipitation, temperature, climate, conditions</p>

Course Description

In this course, students will be taught the Missouri Learning Standards for Science. The standards will be taught through 3 units that integrate 6 modules of science. The focus will consist of structure and properties of matter, forces and motion, types of interactions, the growth and development of organisms, inheritance of traits, natural selection, inheritance, and biodiversity and humans. These science modules will also teach weather and climate, natural hazards, engineering problems, along with developing solutions, and optimizing the solution process. Everyday students will be exposed to grade level materials and practice hands-on inquiry while analyzing, and responding to these problems with appropriate solutions.